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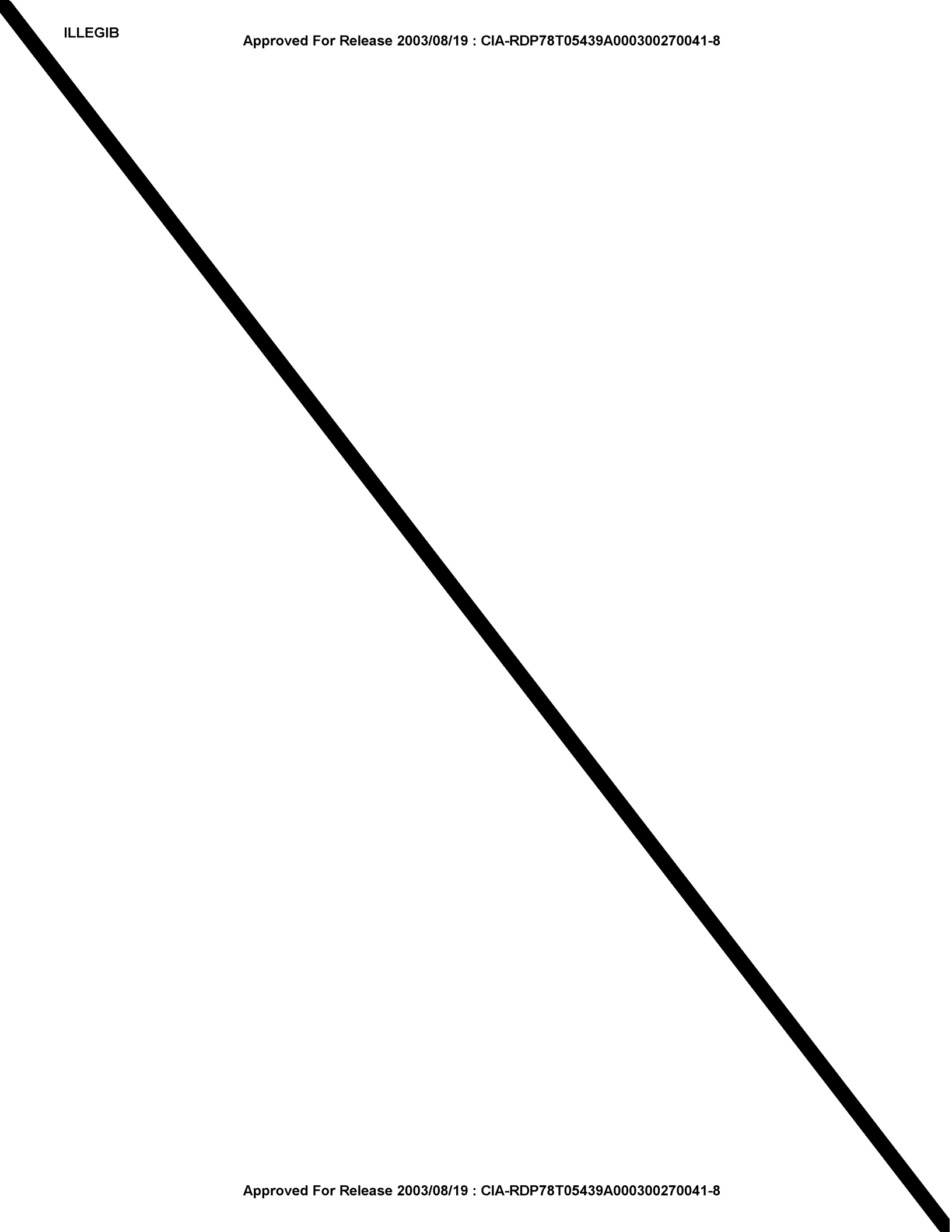

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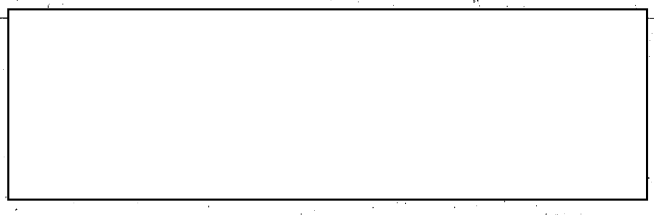
March 1964

CENTRAL INTELLIGENCE AGENCY

PHOTOGRAPHIC INTELLIGENCE REPORT

SOVIET-TYPE SAM INSTALLATIONS, WACS 154, 155, 156, 158, AND 159



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CENTRAL INTELLIGENCE AGENCY

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PREFACE

This is the third in a series of reports, prepared in response to CIA requirement C-RR3-80,733, presenting locational and other pertinent information on all Soviet-type surface-to-air missile (SAM) installations. 1/ 2/ Installations included are SAM launch sites (SA-1, SA-2, SA-3, and SA-0), antimissile-missile activities, SAM support facilities, SAM R & D and training facilities, and unidentified installations, possibly SAM-related. The information will be presented by World Aeronautical Chart (WAC), and within each WAC by SAM defense area, as determined from photography and collateral sources. When the defense function of an installation has not been determined, this will be so indicated. Where no installations have been identified in a WAC area, that WAC will be omitted.

INTRODUCTION

This report presents information on all Soviet-type SAM installations located in the areas covered by WACs 154, 155, 156, 158, and 159 and identified on photography. The cutoff date for this information [redacted] Figure 1 shows all the WAC areas, except Cuba, which will be covered in this series; those in red are covered in this report. WACs covered in the previous report are outlined in red, and the report number is indicated on the graphic. Diagrams of the configurations of the common types of SAM installations are presented in Figure 2. Information for each WAC is shown in a table (Tables 1-5), which gives detailed data, and a map (Figures 3-7), which indicates the location and type of each SAM installation. Because of the volume of data for WACs 154 and 156, Figures 3 and 5 have been repeated for easier reference.

25X1D

Explanations of the columnar headings used in the tables are as follows:

Item--Given in a numerical sequence for each WAC, with numbers assigned to installations arbitrarily, and keyed to the accompanying WAC.

Name, Site Designator, BE Number--In accordance with the TDI. Absence of any of this information indicates that it was not available at the time of publication.

Coordinates--Given in degrees, minutes, and seconds, and plotted from series 200 US Air Target Charts unless otherwise indicated in next column.

Country & Map References--BE country codes used. Map reference is to the Air Target Chart sheet number (scale 1:200,000) unless otherwise indicated.

Type & Configuration--Indicates the type of SAM installation and its configuration as illustrated in Figure 2.

Mission & Date First Appears--Gives the number and date of the mission on which the installation was first sighted.

Mission & Date Installation Negated--Refers to the latest [redacted] photography on which it has been established that construction of the installation had not been started. Absence of any notation indicates that this information could not be determined.

Remarks--Covers items of special or unusual interest.

25X1

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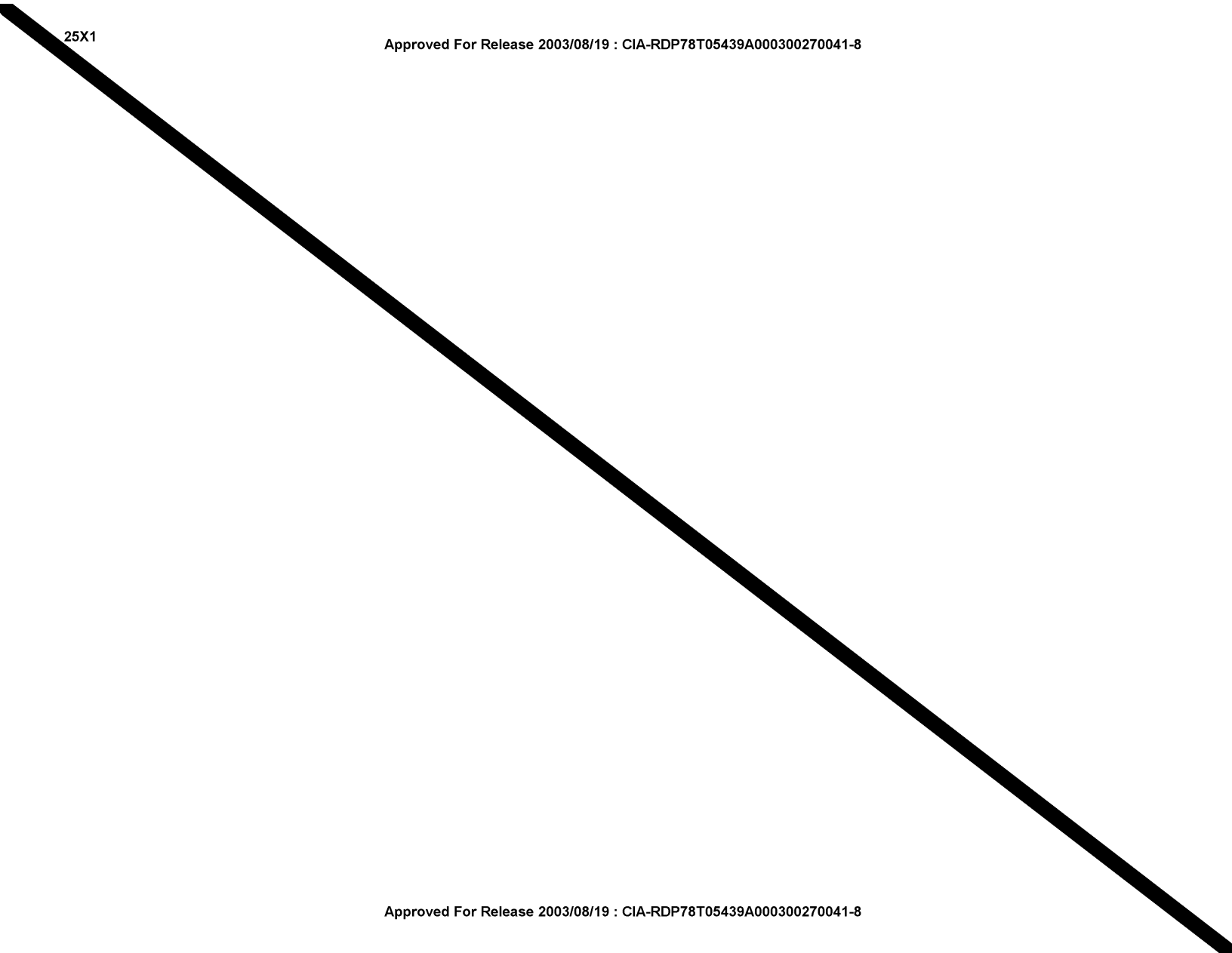

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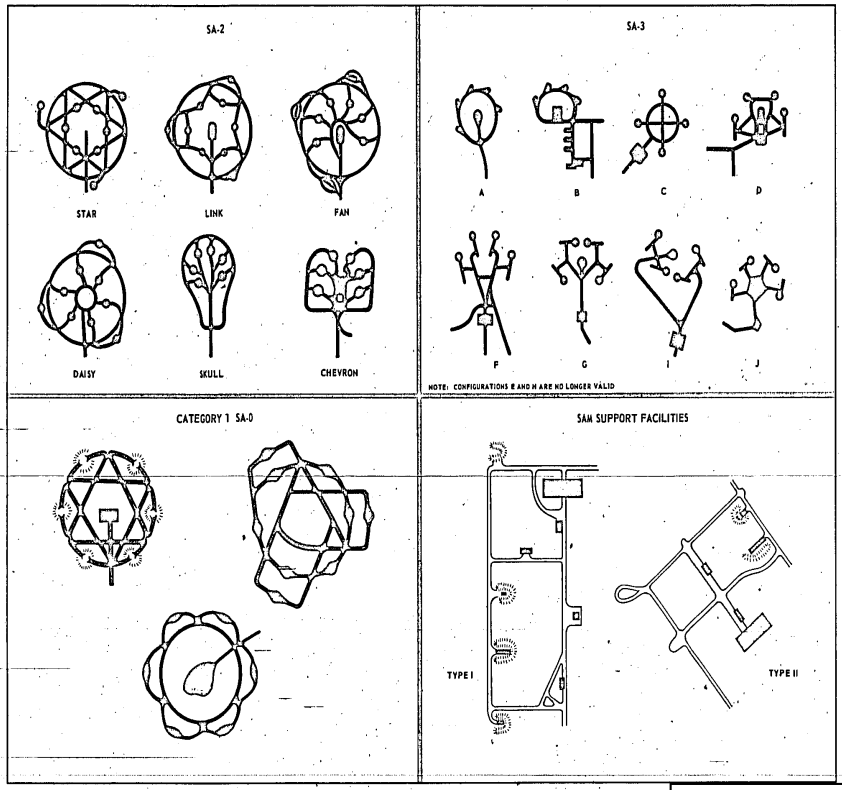

FIGURE 2. SAM INSTALLATION CONFIGURATIONS (NOT DRAWN TO COMMON SCALE)

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Table 1. SAM Installations on WAC 154

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A.	[redacted]						25X2
B.	Cherepovets SAM Defenses (in defense of Cherepovets: river port, transportation center, and large metallurgical combine)						25X1D
25X1A 3	Cherepovets SAM Site B33-3,	59-16-10N 37-38-25E	UR 0154-3	SA-2, link			
25X1A 4	Cherepovets SAM Support Facility,	59-07-26N 38-02-00E	UR 0154-6	Type II (square)			
25X1A 5	Cherepovets SAM Site A15-2	59-00-06N 38-06-05E	UR 0154-6	SA-2, link			
25X1A							
C.	Rybinsk SAM Defenses (in defense of Rybinsk: shipbuilding and aircraft engine production, second largest hydroelectric power plant in USSR)						
25X1A 6	Rybinsk SAM Site B01-2	58-15-00N 38-51-00E	UR 0154-13	SA-2, link			
7	Rybinsk SAM Site B29-2	58-06-40N 38-25-40E	UR 0154-13	SA-2, link			
25X1A 8	Rybinsk SAM Support Facility	58-02-48N 38-43-30E	UR 0154-13	Type I (rectangular)			
9	Rybinsk SAM Site B23-2	57-59-30N 38-32-30E	UR 0154-13	SA-2, link			
25X1A 10	Rybinsk SAM Site A13-2	57-58-20N 39-04-10E	UR 0154-13	SA-2, link			
D.	Moscow SAM Defenses (in defense of Soviet capital--largest city in USSR: major military, industrial, and research center)						25X1D
11	Moscow SAM Site E29-3,	56-01-10N 36-19-20E	UR 0154-22	SA-3, Configuration F			
12	Moscow SAM Site E30-1,	56-01-10N 36-20-45E	UR 0154-22	SA-1, herringbone			
25X1A							
25X1A 13	Moscow SA-3 SAM Training Facility	56-00-15N 36-26-05E	UR 0154-22	SA-3, Configuration C			The proximity of the launch site to surrounding buildings indicates that this is a training facility.
14	Moscow SAM Site E31-1,	56-07-37N 36-29-38E	UR 0154-22	SA-1, herringbone			
15	Moscow SAM Site E32-1,	56-15-20N 36-37-52E	UR 0154-22	SA-1, herringbone			
16	Moscow SAM Site E32-3,	56-16-05N 36-36-00E	UR 0154-22	SA-3, Configuration G			
17	Moscow SAM Site E33-3,	56-21-40N 39-45-40E	UR 0154-22	SA-3, Configuration F			This is one of the four SA-1 sites at Moscow which shows possible AAM associated activity.
18	Moscow SAM Site E33-1,	56-20-00N 36-46-37E	UR 0154-22	SA-1, herringbone			
19	Moscow SAM Site E34-3,	56-25-35N 36-56-40E	UR 0154-22	SA-3, Configuration F			
20	Moscow SAM Site E34-1,	56-24-05N 37-00-32E	UR 0154-22	SA-1, herringbone			
21	Moscow SAM Site E35-3,	56-27-21N 37-10-08E	UR 0154-22	SA-3, Configuration F			
22	Moscow SAM Site E35-1,	56-26-10N 37-10-43E	UR 0154-22	SA-1, herringbone			
25X1A 23	Moscow SAM Site E30-1	56-28-58N 37-28-29E	UR 0154-23	SA-1, herringbone			
24	Moscow SAM Site E01-1	56-28-50N 37-41-40E	UR 0154-23	SA-1, herringbone			
25	Moscow SAM Site E02-1	56-28-20N 37-57-45E	UR 0154-23	SA-1, herringbone			
26	Moscow SAM Site E03-1	56-22-28N 38-11-26E	UR 0154-23	SA-1, herringbone			
27	Moscow SAM Site E04-1	56-20-07N 38-23-20E	UR 0154-23	SA-1, herringbone			This is one of the four SA-1 sites at Moscow which shows possible AAM associated activity.
28	Moscow SAM Site E05-1	56-14-35N 38-35-05E	UR 0154-23	SA-1, herringbone			
29	Moscow SAM Site E06-1	56-07-17N 38-43-14E	UR 0154-23	SA-1, herringbone			
30	Moscow SAM Site E07-1	56-01-07N 38-50-56E	UR 0154-23	SA-1, herringbone			
31	Moscow SAM Site C31-1	56-02-37N 37-00-38E	UR 0154-22	SA-1, herringbone			
32	Moscow SAM Site C35-1	56-07-44N 37-11-40E	UR 0157-22	SA-1, herringbone			
33	Moscow SAM Site C35-1	56-09-35N 37-23-13E	UR 0154-22	SA-1, herringbone			
25X1A 34	Chernaya SAM Storage Site,	56-07-00N 37-29-00E	UR 0154-23	Missile assembly and storage plant			This is one of seven such facilities deployed around Moscow.

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(154) RYBINSKOYE RESERVOIR

WORLD AERONAUTICAL CHART

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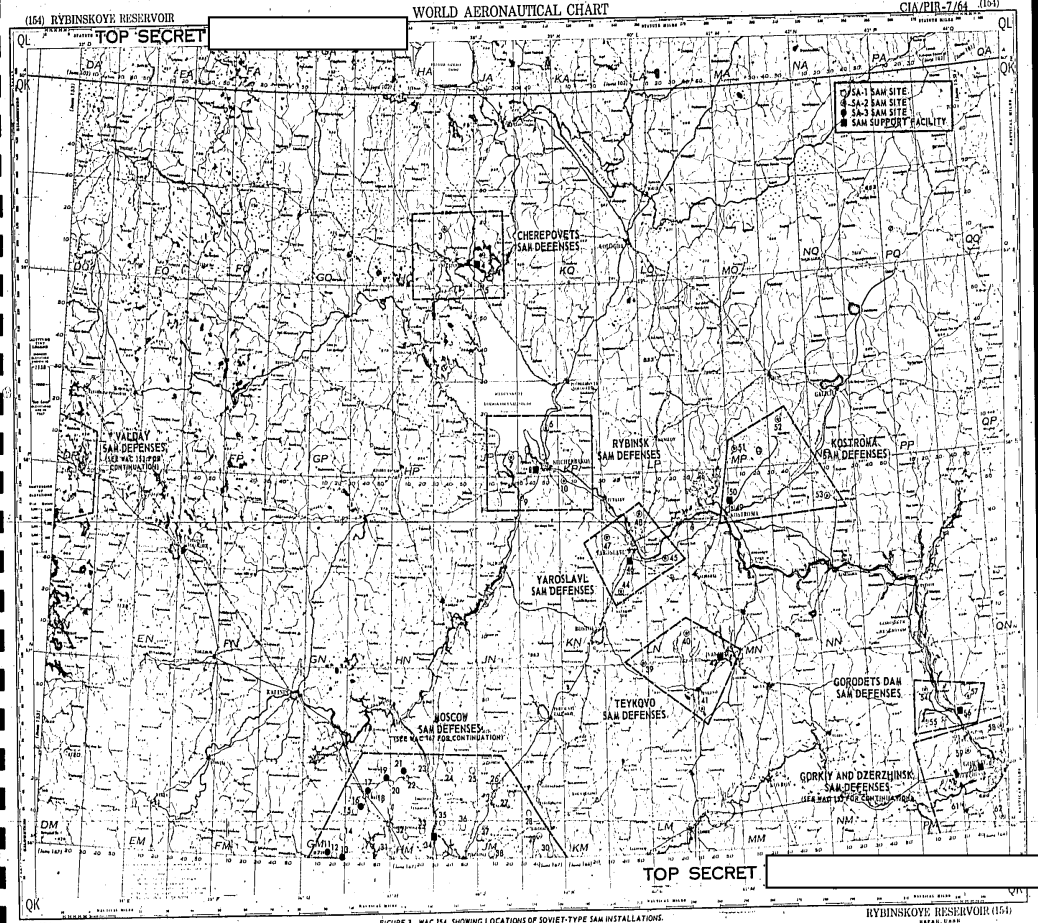

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FIGURE 3. WAC 154, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

(154)

RYBINSKOYE RESERVOIR (154)

Table 1. (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
	D. Moscow SAM Defenses (continued)						
25X1A	35 Moscow SAM Site C36-1	56-12-37N 37-36-13E	UR 0154-23	SA-1, herringbone			This site has a secured storage/support facility located in conjunction with it which consists of 9 large buildings.
25X1A	36 Moscow SAM Site C02-1	56-10-09N 37-49-16E	UR 0154-23	SA-1, herringbone			
	37 Moscow SAM Site C04-1	56-05-14N 38-00-46E	UR 0154-23	SA-1, herringbone			
	38 Moscow SAM Site C05-1	56-01-08N 38-16-38E	UR 0154-23	SA-1, herringbone			
	E. Teykovo ICBM Complex SAM Defenses (in defense of Teykovo ICBM Complex)						
25X1A	39 Teykovo ICBM Complex SAM Site B29-2,	57-00-30N 39-57-20E	UR 0154-19	SA-2, link			
25X1A	40 Ivanovo SAM Site B30-2	57-09-15N 40-26-25E	UR 0154-19	SA-2, link			
	41 Ivanovo SAM Site C22-2	56-45-55N 40-35-00E	UR 0154-24	SA-2, link			
25X1A	42 Ivanovo SAM Support Facility,	57-01-00N 40-50-40E	UR 0154-19	Type II (square)			
25X1A	43 Ivanovo SAM Site A29-2,	57-01-00N 40-53-10E	UR 0154-19	SA-2, link			
	F. Yaroslavl SAM Defenses (in defense of Yaroslavl-oblast capital: motor vehicle plant-YaAZ, rubber and asbestos combine, POL refineries, and ammunition plant)						
25X1A	44 Yaroslavl SAM Site B21-2	57-23-10N 39-49-10E	UR 0154-19	SA-2, link			
25X1A	45 Yaroslavl SAM Site B10-2	57-33-40N 40-14-45E	UR 0154-19	SA-2, link			
	46 Yaroslavl SAM Support Facility,	57-33-05N 39-50-15E	UR 0154-19	Type I (rectangular)			
25X1A	47 Yaroslavl SAM Site B30-2	57-42-17N 39-33-38E	UR 0154-13	SA-2, link			
	48 Yaroslavl SAM Site B02-2	57-47-45N 39-57-30E	UR 0154-14	SA-2, link			
	G. Kostroma ICBM Complex SAM Defenses (in defense of Kostroma ICBM Complex)						
25X1A	49 Kostroma ICBM Complex SAM Site B21-2,	57-48-35N 41-03-05E	UR 0154-14	SA-2, link			
	50 Kostroma SAM Support Facility,	57-49-00N 41-02-30E	UR 0154-14	Type II (square)			
25X1A	51 Kostroma ICBM Complex SAM Site A32-2,	58-00-30N 41-05-30E	UR 0154-14	SA-2, link			
25X1A	52 Kostroma ICBM Complex SAM Site B05-2,	58-14-10N 41-38-35E	UR 0154-14	SA-2, link			
25X1A	53 Kinoshma SAM Site C01-2	57-49-30N 42-11-40E	UR 0154-15	SA-2, link			
	H. Gorodets Dam SAM Defenses (in defense of Gorodets dam and hydroelectric power plant)						
25X1A	54 Gorkiy SAM Site B32-2	56-46-00N 43-09-00E	UR 0154-25	SA-2, link			
25X1A	55 Gorkiy SAM Site B21-2	56-35-00N 43-09-20E	UR 0154-25	SA-2, link			
	56 Gorodets SAM Support Facility,	56-35-30N 43-32-00E	UR 0154-25	Type I (rectangular)			
25X1A	57 Gorkiy SAM Site C35-2,	56-42-50N 43-30-30E	UR 0154-25	SA-2, link			
25X2	I. Gorkiy and Dzerzhinsk SAM Defenses (in defense of			motor vehicle plant-Gaz, POL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)			
25X1A	58 Gorkiy SAM Site B01-2	56-31-40N 44-00-00E	UR 0154-25	SA-2, link			
25X1A	59 Gorkiy SAM Site B31-2	56-25-30N 43-36-30E	UR 0154-25	SA-2, link			
	60 Gorkiy SAM Support Facility,	56-16-00N 43-44-00E	UR 0154-25	Type I (rectangular)			
	61 Gorkiy SAM Site B24-2	56-06-30N 43-50-45E	UR 0154-25	SA-2, link			
25X1A	62 Gorkiy SAM Site B18-2	56-03-45N 43-57-45E	UR 0154-25	SA-2, link			

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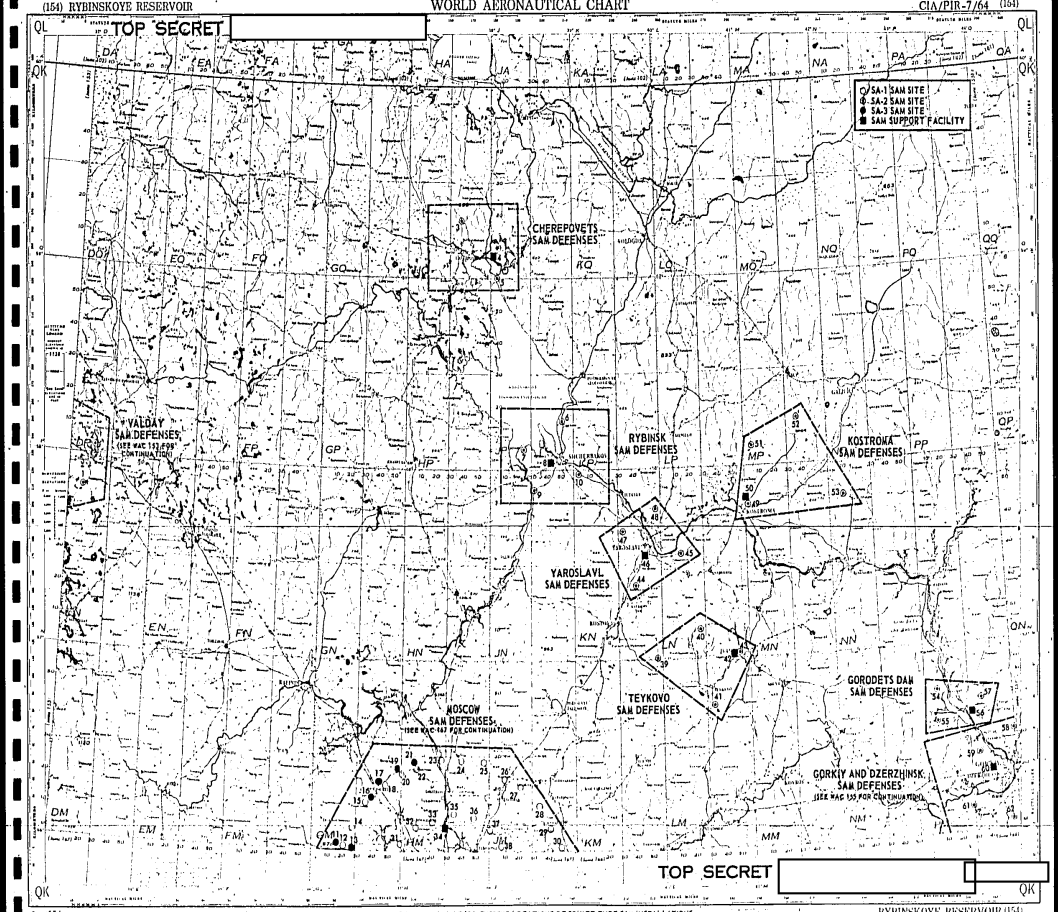
SA-1 SAM SITE
SA-2 SAM SITE
SA-3 SAM SITE
SAM SUPPORT FACILITY
CHEREPOVETS SAM DEFENSES
VALDAY SAM DEFENSES (SEE WAC 153 FOR CONTINUATION)
RYBINSK SAM DEFENSES
KOSTROMA SAM DEFENSES
YAROSLAVL SAM DEFENSES
TEYKOVO SAM DEFENSES
GORODETS DAM SAM DEFENSES
MOSCOW SAM DEFENSES (SEE WAC 147 FOR CONTINUATION)
GORKIY AND DZERZHINSK SAM DEFENSES (SEE WAC 135 FOR CONTINUATION)

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FIGURE 3 (REPEAT). WAC 154, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

TOP SECRET [redacted]

Table 2. SAM Installations on WAC 155

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
25X2	A. Gorkiy and Dzerzhinsk SAM Defenses (in defense of [redacted] motor vehicle plant-Gaz, POL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)						
25X1A	1 Gorkiy SAM Site B11-2 [redacted]	56-16-15N 44-16-10E	UR 0155-21	SA-2, link	[redacted]		
	B. Yoshkar-Ola ICBM Complex SAM Defenses (in defense of Yoshkar-Ola ICBM Complex)						
	2 Yoshkar-Ola ICBM Complex SAM Site C13-2, [redacted]	56-24-50N 48-46-40E	UR 0155-23	SA-2, link			
25X1A	3 Yoshkar-Ola ICBM Complex SAM Site B18-0, [redacted]	56-23-00N 48-14-00E	UR 0155-22	SA-0, Category I			25X1D
25X1A	4 Yoshkar-Ola ICBM Complex SAM Site B27-2, [redacted]	56-33-00N 47-50-00E	UR 0155-22	SA-2, link			
25X1A	5 Yoshkar-Ola ICBM Complex SAM Support Facility	56-39-40N 47-59-10E	UR 0155-22	Type II (square)			
25X1A	6 Yoshkar-Ola ICBM Complex SAM Site B35-0, [redacted]	56-44-20N 48-06-00E	UR 0155-22	SA-0, Category I			
25X1A	7 Yoshkar-Ola ICBM Complex SAM Site C06-2, [redacted]	56-46-10N 48-36-00E	UR 0155-23	SA-2, star			
25X1A	8 Yoshkar-Ola ICBM Complex SAM Site D06-2, [redacted]	56-55-10N 49-14-26E	UR 0155-18	SA-2, link			This site is slightly removed from ICBM launch complex, and may represent the first indication of a barrier defense stretching between Yoshkar-Ola and Kirov.
25X1A	C. Kazan SAM Defenses (in defense of Kazan: aircraft parts, engines, and airframes; optical equipment, explosives, synthetic rubber, and chemical production)						
	9 Kazan SAM Site B01-2 [redacted]	56-03-45N 49-11-30E	UR 0155-23	SA-2, star	[redacted]		25X1D
	D. Yurya ICBM Complex/Kirov SAM Defenses (in defense of Yurya ICBM Complex and Kirov: tire, railroad crane, aircraft parts, and agricultural equipment production; and metallurgical plants)						
25X1A	10 Yurya ICBM Complex SAM Site B28-2, [redacted]	59-15-00N 48-56-00E	UR 0155-3	SA-2, link			
25X1A	11 Yurya ICBM Complex SAM Site B04-2, [redacted]	59-20-00N 49-45-00E	UR 0155-3	SA-2, star			
25X1A	12 Yurya ICBM Complex SAM Support Facility, [redacted]	59-10-10N 49-25-00E	UR 0155-8	Type II (square)			
25X1A	13 Yurya ICBM Complex SAM Site B23-2, [redacted]	58-55-30N 49-03-55E	UR 0155-8	SA-2, star			
25X1A	14 Yurya ICBM Complex SAM Site B12-2, [redacted]	59-05-55N 49-56-40E	UR 0155-8	SA-2, star			
25X1A	15 Kirov SAM Support Fa [redacted]	58-32-20N 49-35-00E	UR 0155-8	Type II (square)			
25X1A	16 Kirov SAM Site B17-2 [redacted]	58-21-15N 49-46-55E	UR 0155-13	SA-2, star			25X1D
25X1A	17 Kirov SAM Site C07-2 [redacted]	58-46-50N 50-24-00E	UR 0155-8	SA-2, star			
	E. Kirov to Glazov SAM Defenses (probable beginning of a barrier defense between Kirov and Glazov)						
25X2	18 Kirov SAM Site D12-2 [redacted]	58-24-20N 50-38-50E	UR 0155-9	SA-2, star			
25X1A	19 Glazov SAM Site B28-2 [redacted]	58-10-10N 52-10-40E	UR 0155-14	SA-2, star			This site, carried by NPIC as a Category I SA-0, does not display the configuration of a Category I SA-0, but of a star configuration SA-2 SAM site.
25X1A	20 Glazov SAM Site B01-2 [redacted]	58-18-30N 52-43-15E	UR 0155-14	SA-2, star			
25X1A	21 Glazov SAM Support Facility [redacted]	58-06-25N 52-46-35E	UR 0155-14	Type I (rectangular)			
25X1A	22 Glazov SAM Site A09-2, [redacted]	58-09-05N 53-00-00E	UR 0155-15	SA-2, star			
	G. Glazov to Perm SAM Defenses (barrier defense between Glazov and Perm)						
25X1A	23 Glazov SAM Site D10-2, [redacted]	58-02-30N 53-47-50E	UR 0155-15	SA-2, link			
	24 Voroshchagino SAM Site [redacted]	58-03-30N 54-34-30E	UR 0155-15	SA-2, link			
	H. Izhevsk SAM Defenses (in defense of large arms and machine equipment plant)						
	25 Izhevsk SAM Site B01-2 [redacted]	57-04-31N 53-13-02E	UR 0155-20	SA-2, unrevetted			No service road pattern is visible at this site.
25X1A	26 Izhevsk SAM Site B36-2 [redacted]	57-02-10N 53-09-02E	UR 0155-20	SA-2, link			
25X1A	27 Izhevsk SAM Site A36-2 [redacted]	56-54-50N 52-57-00E	UR 0155-20	SA-2, link			
25X1A	28 Izhevsk SAM Support Facility, [redacted]	56-48-42N 53-23-15E	UR 0155-20	Type I (rectangular)			

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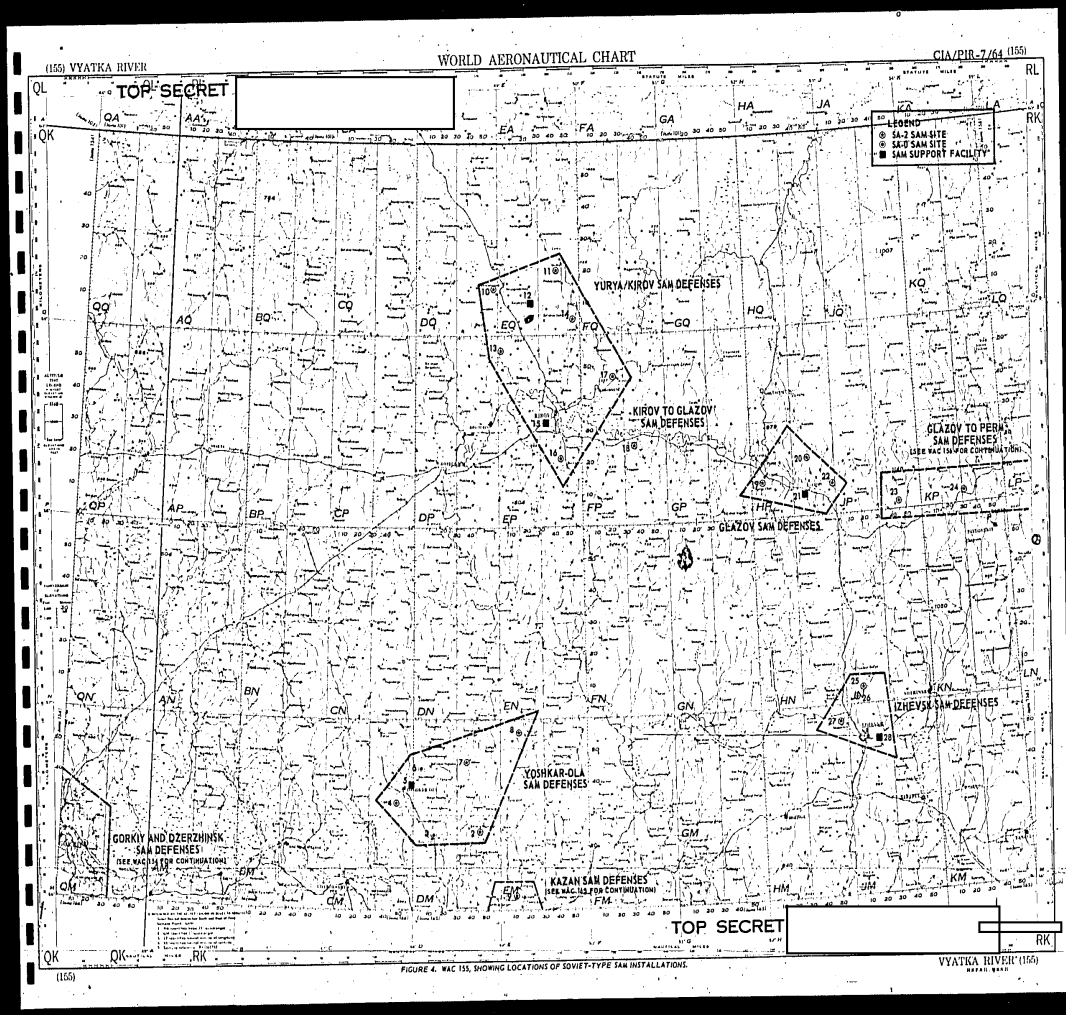

FIGURE 4. WAC 155, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

TOP SECRET [redacted]

Table 3. SAM Installations on WAC 150

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
25X2							
	A. Berozniki SAM Defenses (in defense of Berozniki [redacted]						
25X1A 1	Berozniki SAM Site B03-2 [redacted]	59-41-50N 57-00-55E	UR 0156-1	SA-2, link			
25X1A 2	Berozniki SAM Support Facility [redacted]	59-23-05N 56-52-00E	UR 0156-1	Type II (square)			
25X1A 3	Berozniki SAM Site A10-2 [redacted]	59-14-55N 56-44-15E	UR 0156-1	SA-2, link	[redacted]		25X1D
	B. Perm to Glazov SAM Defenses (barrier defense between Perm and Glazov)						
25X1A 4	Perm SAM Site D27-2 [redacted]	58-00-00N 55-15-00E	UR 0156-11	SA-2, star			
	C. Perm SAM Defenses (in defense of Perm ICBM Complex and Perm: armaments and munitions combine, aircraft engine and assembly plants, chemical production, and missile static test facilities)						
25X1A 5	Perm SAM Site B32-2 [redacted]	58-11-30N 56-01-50E	UR 0156-11	SA-2, link			
25X1A 6	Perm SAM Site B01-2 [redacted]	58-16-50N 56-21-50E	UR 0156-11	SA-2, link			
25X1A	Perm SAM Support Facility [redacted]	58-02-00N 56-23-00E	UR 0156-11	Type I (rectangular)			
25X1A 8	Perm SAM Site B19-2 [redacted]	58-01-00N 56-44-20E	UR 0156-11	SA-2, star	[redacted]		25X1D
	D. Perm to Nizhniy Tagil SAM Defenses (barrier defense between Perm and Nizhniy Tagil)						
9	Lyava SAM Site A25-2 [redacted]	58-02-00N 57-31-40E	UR 0156-12	SA-2, probable link			
25X1A 10	Nizhniy Tagil SAM Site [redacted]	57-57-45N 58-59-30E	UR 0156-12	SA-2, probable star			
11	Nizhniy Tagil SAM Site [redacted]	57-52-45N 59-33-15E	UR 0156-13	SA-2, star			
25X2	[redacted]						
12	Nizhnyaya Tura SAM Site B36-2 [redacted]	58-48-00N 59-47-00E	UR 0156-6	SA-2, star			
25X1A 13	Nizhnyaya Tura SAM Site B28-2 [redacted]	58-38-00N 59-29-00E	UR 0156-6	SA-2, link			
14	Nizhnyaya Tura SAM Support Facility, [redacted]	58-40-25N 59-38-20E	UR 0156-6	Type I (rectangular)			
25X1A 15	Nizhnyaya Tura SAM Site B08-2 [redacted]	58-40-00N 60-08-00E	UR 0156-6	SA-2, star	[redacted]		25X1D
16	Nizhnyaya Tura SAM Site B21-2 [redacted]	58-27-40N 59-48-40E	UR 0156-6	SA-2, star			
25X1A	F. Nizhniy Tagil/Verkhnyaya Salda ICBM Complex SAM Defenses (in defense of Verkhnyaya Salda ICBM Complex and Nizhnyaya Salda steel plant; railroad freight car, armored combat vehicles, ingot steel, pig iron, and coke production at Nizhniy Tagil; and Verkhnyaya Salda aircraft parts plant)						
25X1A 17	Verkhnyaya Salda ICBM Complex SAM Site D03-2, [redacted]	58-43-15N 61-03-35E	UR 0156-6	SA-2, star			
25X1A 18	Verkhnyaya Salda ICBM Complex SAM Site B33-2, [redacted]	58-20-50N 60-15-20E	UR 0156-13	SA-2, star	[redacted]		25X1D
19	Nizhniy Tagil SAM Site B38-2 [redacted]	58-05-45N 59-55-15E	UR 0156-13	SA-2, star			
25X1A 20	Nizhniy Tagil SAM Support Fa [redacted]	57-52-05N 60-02-40E	UR 0156-13	Type I (rectangular)			
21	Nizhniy Tagil SAM Site C13-2 [redacted]	57-43-10N 60-31-30E	UR 0156-13	SA-2, star			
22	Verkhnyaya Salda ICBM Complex SAM Site [redacted]	58-04-20N 61-01-20E	UR 0156-13	SA-2, star			
25X1A	[redacted]						
25X2	G. Sverdlovsk/Verkh-Neyvinskiy SAM Defenses [redacted]						
25X1A 23	Verkh-Neyvinskiy SAM Site B24-2 [redacted]	57-08-45N 59-48-55E	UR 0156-18	SA-2, link			
25X1A 24	Verkh-Neyvinskiy SAM Site A32-2 [redacted]	57-21-30N 59-54-55E	UR 0156-18	SA-2, link			
25X1A 25	Verkh-Neyvinskiy SAM Support Facility, [redacted]	57-16-50N 60-04-00E	UR 0156-18	Type I (rectangular)			
26	Verkh-Neyvinskiy SAM Site B04-2 [redacted]	57-26-25N 60-20-05E	UR 0156-18	SA-2, link			
25X1A 27	Verkh-Neyvinskiy SAM Site B03-2 [redacted]	57-18-30N 60-41-15E	UR 0156-18	SA-2, link	[redacted]		25X1D
28	Sverdlovsk SAM Site B05-2 [redacted]	57-01-15N 60-53-50E	UR 0156-18	SA-2, link			
25X1A 29	Sverdlovsk SAM Site A01-2 [redacted]	56-57-20N 60-38-30E	UR 0156-18	SA-2, star			
30	Sverdlovsk SAM Support Facility [redacted]	56-52-45N 60-49-15E	UR 0156-18	Type I (rectangular)			
25X1A 31	Sverdlovsk SAM Site B13-2 [redacted]	56-43-40N 60-57-05E	UR 0156-23	SA-2, link			
32	Sverdlovsk SAM Site B22-2 [redacted]	56-41-00N 60-29-15E	UR 0156-23	SA-2, link			
25X1A 33	Sverdlovsk SAM Site B28-2 [redacted]	56-51-55N 60-14-40E	UR 0156-18	SA-2, link			

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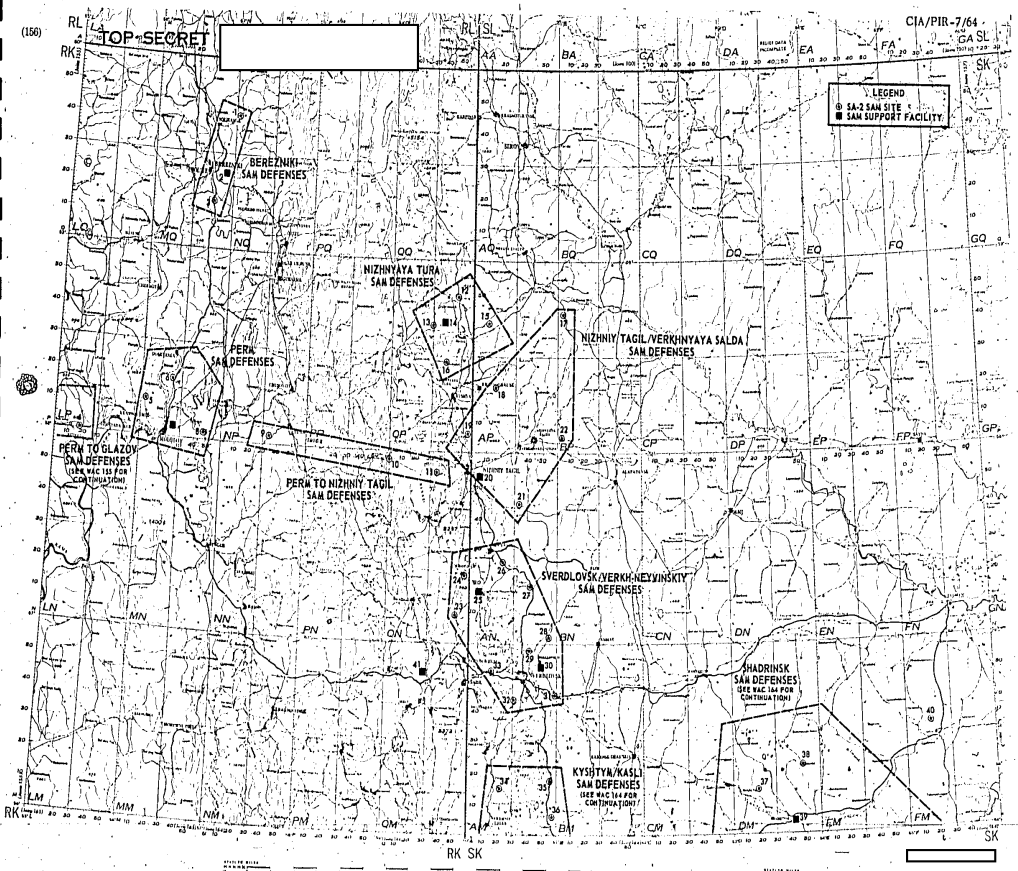

FIGURE 5. WAC 156, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 3. (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
25X2	H. Kyshtym/Kasli SAM Defenses [redacted]						
25X1A	34 Sverdlovsk SAM Site D20-2, [redacted]	56-14-45N 60-20-00E	UR 0156-23	SA-2, star			
	35 Sverdlovsk SAM Site D17-2,	56-16-50N 60-54-30E	UR 0156-23	SA-2, link			
25X1A	36 Kasli SAM Site D03-2 [redacted]	56-05-05N 60-56-30E	UR 0156-23	SA-2, Configuration undetermined			This site is under construction and has not yet assumed a configuration.
	I. Shadrinsk ICBM Complex SAM Defenses (in defense of Shadrinsk ICBM Complex)						
25X1A	37 Shadrinsk SAM Site B31-2, [redacted]	56-13-00N 63-17-00E	UR 0156-24	SA-2, link			
	38 Shadrinsk SAM Site B02-2,	56-21-15N 63-47-15E	UR 0156-24	SA-2, link			
25X1A	39 Shadrinsk SAM Support Facility [redacted]	56-03-05N 63-41-50E	UR 0156-25	Type II (square)			
	J. Installations which at present do not fit a defense pattern						
25X1A	40 Tyumen ICBM Complex SAM Site C22-2, [redacted]	56-32-00N 65-16-30E	UR 0156-25	SA-2, link			This is the only site identified thus far in the vicinity of the Tyumen ICBM Complex. It probably represents the beginning of a defensive pattern which will surround the ICBM complex.
25X1A	41 Druzhinino SAM Storage Site 2, [redacted]	56-50-00N 59-25-00E	UR 0156-18	Missile assembly & storage facility			Large missile assembly and storage plant is similar to those near Moscow and Zhitomir. It probably provides support for the entire central Urals area, rather than for any one defense complex.

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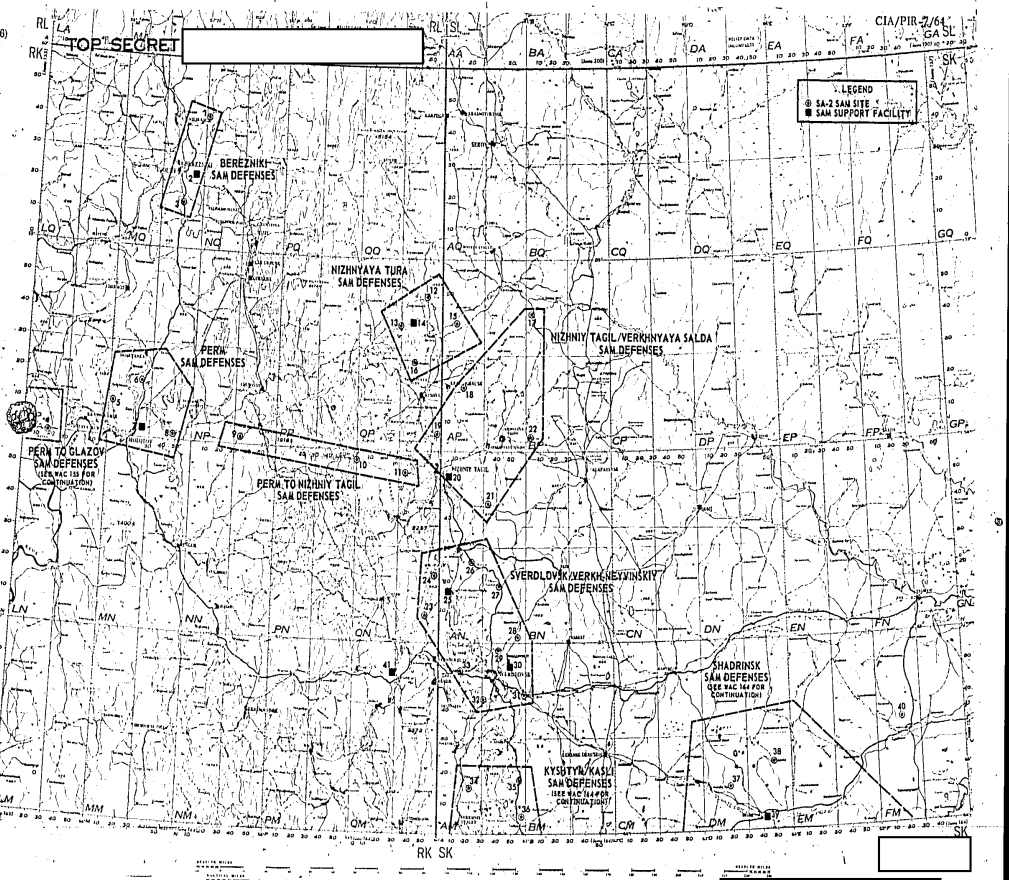

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FIGURE 5 (REPEAT). WAC-156, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 4. SAM Installations on WAC 158

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A.	Tomsk SAM Defenses [redacted]						
1	Tomsk SAM Site B29-2, [redacted]	56-33-30N 84-37-30E	UR 0158-24	SA-2, prob star	[redacted]		
2	Tomsk SAM Site B33-2,	56-41-10N 84-44-05E	UR 0158-24	SA-2, link			
3	Tomsk SAM Site B09-2,	56-45-05N 85-06-05E	UR 0158-24	SA-2, link			
4	Tomsk SAM Site A03-2,	56-32-30N 85-00-30E	UR 0158-24	SA-2, link			

25X2
25X1A
25X1D

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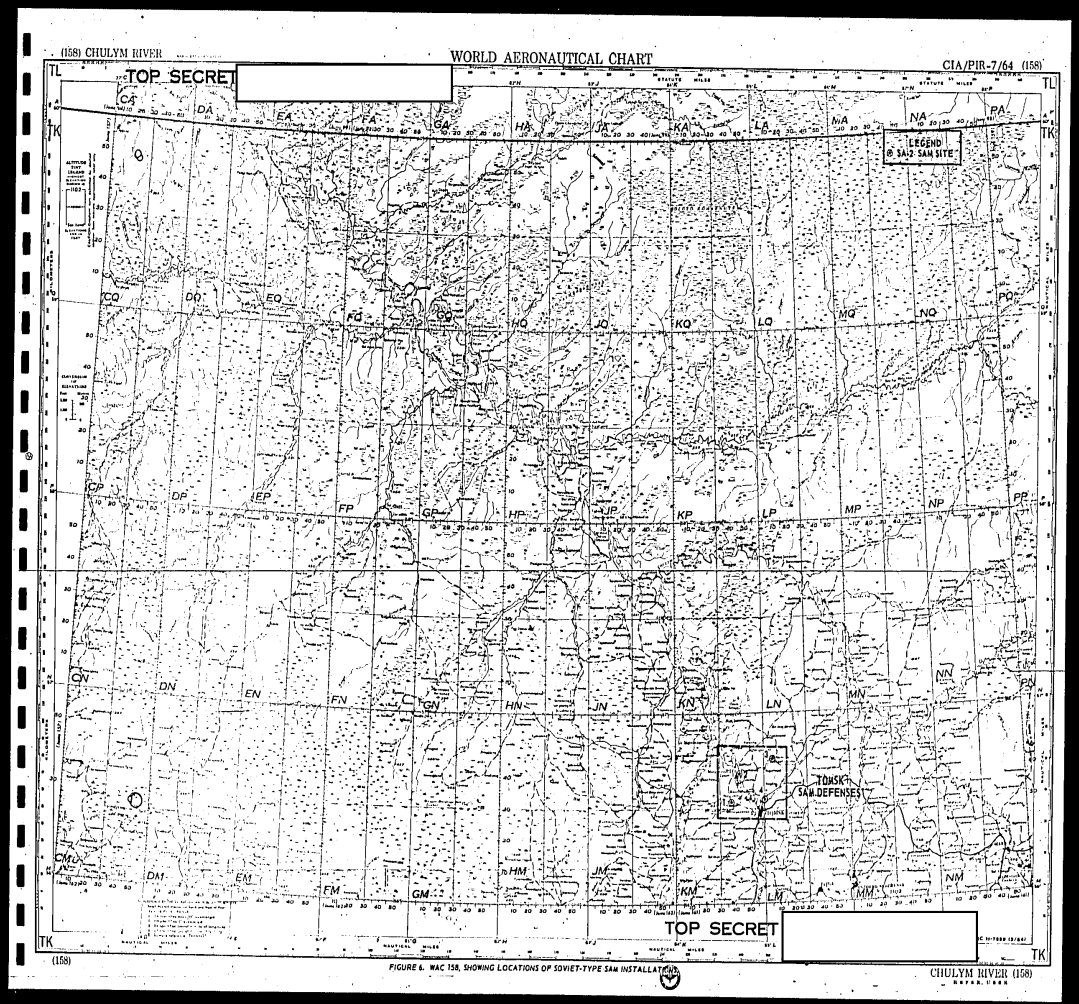

FIGURE 6. WAC 158, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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Table 5. SAM Installations on WAC 159.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
	A. Nazarovo SAM Defenses (in defense of Nazarovo Thermal Power Plant GRES)						
25X1A	1 Achinsk SAM Support Facility [redacted]	56-11-15N 90-25-30E	UR 0159-22	Type II (square)	[redacted]		25X1D
25X1A	2 Nazarovo SAM Site B04-2, [redacted]	56-10-10N 90-39-30E	UR 0159-22	SA-2, link			
	[redacted]						25X2
25X1A	3 Uralskaya ICBM Complex SAM Site B17-2, [redacted]	56-09-55N 92-34-50E	UR 0159-23	SA-2, link			
	4 Startsevo SAM Support Facility [redacted]	56-10-40N 92-56-30E	UR 0159-23	Type II (square)			
25X1A	5 Krasnoyarsk SAM Support Facility 1, [redacted]	56-09-00N 93-21-30E	UR 0159-23	Type I (rectangular)			
25X1A	6 Krasnoyarsk SAM Site C08-2 [redacted]	56-08-45N 93-32-15E	UR 0159-23	SA-2, link			25X1D
25X1A	7 Krasnoyarsk SAM Site B02-2 [redacted]	56-16-30N 92-59-30E	UR 0159-23	SA-2, link			
25X1A	8 Krasnoyarsk SAM Site D03-2 [redacted]	56-30-45N 93-21-50E	UR-0159-23	SA-2, link			
	9 Krasnoyarsk SAM Site D06-2 [redacted]	56-20-00N 93-46-20E	UR 0159-23	SA-2, link			

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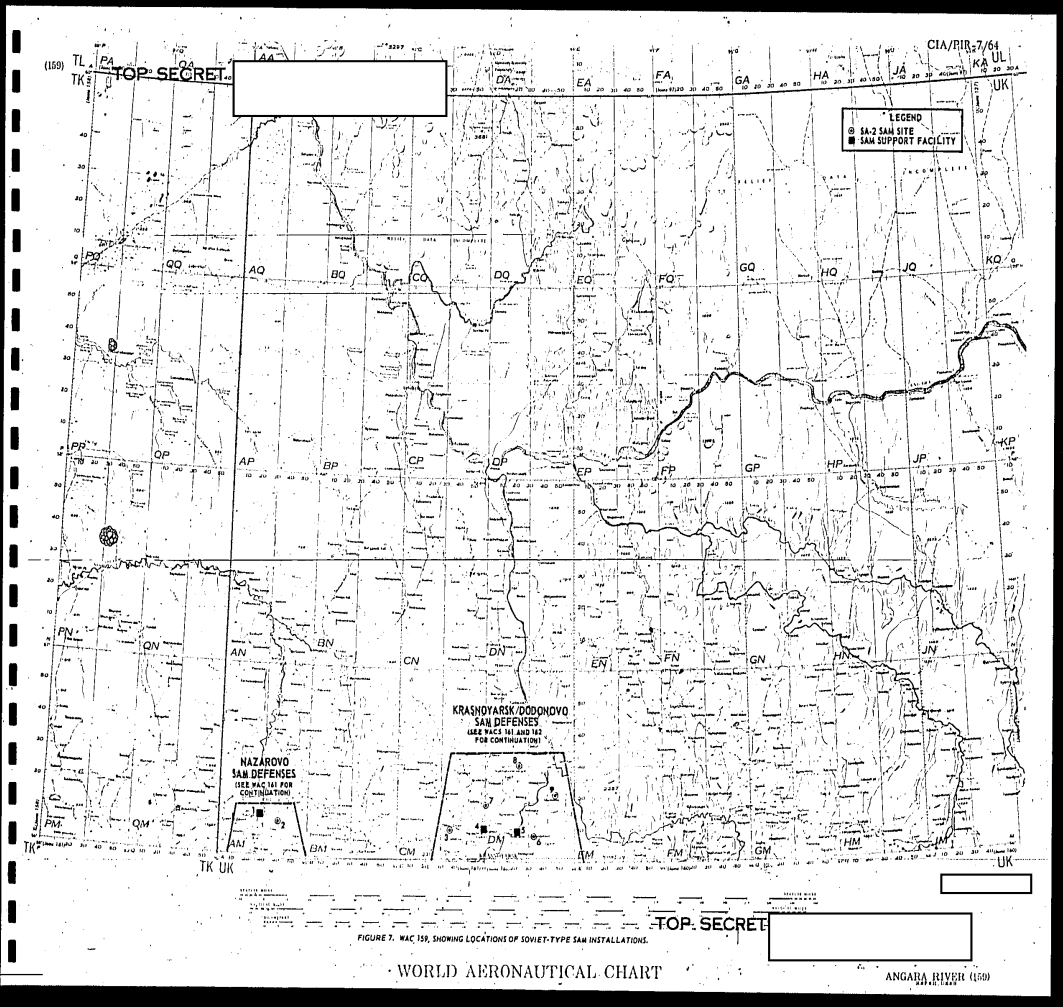

FIGURE 7. WAC 159, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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1. CIA. PIR-1/64, Soviet-Type SAM Installations, WACs 50, 51, 75, 91, and 92, Jan 64 (TOP SECRET [ ]
2. CIA. PIR-3/64, Soviet-Type SAM Installations, WACs 102, 103, 127, 131, 152, and 153, Jan 64 (TOP SECRET [ ]

REQUIREMENT

CIA. C-RR3-80,783

PROJECT

C-1560/03 (partial answer).

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